

Appl. No. 10/605,416  
Amdt. dated December 28, 2006  
Reply to Office action of November 3, 2006

**Listing of Claims:**

Claim 1-19 (cancelled)

Claim 20 (previously amended): A liquid crystal display comprising:

- 5       a lower substrate;  
      an upper substrate positioned parallel with the lower substrate; and  
      a plurality of pixel units, each of the pixel units including an upper transparent  
electrode, a liquid crystal layer, a lower transparent electrode, and a color filter formed on  
the upper substrate and above the lower substrate;  
10       wherein a surface of each color filter has a plurality of curved convex structures, and  
the upper transparent electrode directly contacts and covers the curved convex structures  
on the surface of each of the color filters.

Claim 21 (cancelled)

15

Claim 22 (previously amended): The liquid crystal display of claim 20 wherein the  
surface of each color filter which has the plurality of curved convex structures is able to  
scatter light.

- 20    Claim 23 (previously amended): The liquid crystal display of claim 20 wherein a  
distribution density of the curved convex structures is used to regulate brightness and a  
color deepness of the liquid crystal display.

- Claim 24 (previously presented): The liquid crystal display of claim 20 wherein each of  
25    the pixel units respectively comprises a reflection layer positioned between the color filter  
and the lower substrate.

Claim 25 (previously presented): The liquid crystal display of claim 24 being a reflective

liquid crystal display.

Claim 26 (previously presented): The liquid crystal display of claim 24 wherein each of the reflection layers includes an opening.

5

Claim 27 (previously presented): The liquid crystal display of claim 26 being a semi-transmissive and semi-reflective liquid crystal display.

10 Claim 28 (previously presented): The liquid crystal display of claim 20 further comprising a plurality of thin film transistors for respectively controlling each of the pixel units.

Claim 29 (previously amended): The liquid crystal display of claim 28 wherein the thin film transistors are formed on the lower substrate and below the upper substrate.

15

Claim 30-39 (cancelled)

Claim 40 (previously presented): The liquid crystal display of claim 20 wherein each of the curved convex structures comprises a smooth surface.

20

Claim 41 (previously presented): The liquid crystal display of claim 20 wherein each of the curved convex structures comprises a spherical surface.

25 Claim 42 (previously presented): The liquid crystal display of claim 20 wherein each of the pixel units comprises three of the color filters having a plurality of the curved convex structure respectively.

Claim 43 (previously presented): The liquid crystal display of claim 20 wherein the

Appl. No. 10/605,416  
Amdt. dated December 28, 2006  
Reply to Office action of November 3, 2006

curved convex structures have non-uniform sizes.

Claim 44-47 (cancelled)